

**DISCRIMINATION OF SUPRAVENTRICULAR TACHYCARDIA AND
VENTRICULAR TACHYCARDIA EVENTS**

Abstract

5 A method and system for discrimination of supraventricular tachycardia and
ventricular tachycardia events. Morphological features points are extracted from
normal sinus rhythm (NSR) complexes and used to generate a NSR template. A
numerical convolution is performed using the NSR template and the feature points for
each sensed NSR to give a NSR filter output. Using a plurality of NSR complexes, a
10 median NSR filter output template is determined, where the median NSR filter output
template has a median value for each value in the NSR filter output. The median NSR
filter output template is then used during a tachycardia event to distinguish tachycardia
events as either ventricular tachycardia events or supraventricular tachycardia events.

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